

CURRICULUM VITAE

Carole L. Berger, Ph. D.

Home Address: 3935 Blackstone Ave.
Riverdale, BX, N.Y. 10471

Yale University, School of Medicine
Department of Dermatology
333 Cedar St, LCI 506
New Haven, CT 06510
(203) 785-4024
E-Mail: Carole.Berger@Yale.EDU

EDUCATION

City College, B.S. Biology, 1966
Columbia University, M.A., 1971
Columbia University, M.S., 1974
Columbia University, Science Education, Ed. D., 1976
Columbia University, M. Phil, 1983
Columbia University, Immunology, Pathology, Ph.D 1984

PROFESSIONAL EXPERIENCE

Research Scientist
Department of Dermatology, Yale Univ. 1993-Pres
Associate Professor of Clinical Pathology &
Dermatology, Columbia University, 1990-1993
Assistant Professor of Dermatology and Pathology
Columbia University, 1983-1990
Director, Immunopathology Laboratory
Columbia-Presbyterian Medical Center, 1985-1988
Research Associate, Department of Dermatology
Columbia University, 1978-1983
Postdoctoral Fellow, Department of Dermatology

Columbia University, 1977-1978

HONORS AND AWARDS

National Psoriasis Fellowship
Leukemia Association of America Fellow
Systemic Lupus Erythematosus Foundation Award
NIH New Investigator Award upgraded to:
NIH First Award

Membership

Society for Investigative Dermatology
Harvey Society
American Association of Immunology
Yale Comprehensive Cancer Center

TEACHING

Medical Students, Pathology Course
Immunopathology, 1985-1988

Medical Students, Dermatology Elective
Immunodermatology, 1990-1992

Residents, Immunology, Molecular Biology
Present

CLINICAL TRIALS:

Photochemotherapy-Cardiac Transplantation
Co-Director, Eric Rose, M. D.
Columbia University, Surgery, 1989-93

Photochemotherapy-ARC
Collaborator, Emil Bisaccia, M. D.
Morristown Hospital, Medicine, 1989-93

Photochemotherapy-CTCL
Collaborator, Vincent Deleo, M. D.
Columbia University, Dermatology, 1990-93

Immune Gamma Globulin-AIDS in children
Collaborator, Elaine Abrams, M. D.
Harlem Hospital, Pediatrics, 1989-93

Monoclonal antibodies (Biogen) in cardiac transplant

Collaborator, Charles Marboe, M. D.
Columbia University, Pathology, 1991-93

Transimmunization for CTCL Phase I Trial 2003-4
Yale University, Dermatology

Transimmunization for Non-small cell Lung Cancer Phase I
Trial 2005-2006

GRANT SUPPORT:

1. NIH First Award: 5R29CA39700
2. NIH Program Project in xenotransplantation, Co-
Investigator
3. Clinical trial of Photochemotherapy in cardiac allograft
recipients funded by Therakos, subsidiary of Johnson &
Johnson.
4. Multi-center clinical trial of Immunotherapy in pediatric
AIDS, Harlem Hospital Arm, funded by NIH contract.
5. Evaluation of phototherapy protocols, Morristown Medical
Center, Funded by the Department of Medicine,
Morristown Hospital.
6. NY Cardiac Foundation, Evaluation of atherosclerosis in
ECP patients.
7. Transimmunization in the immunotherapy of CTCL.
Connecticut State Tobacco Grant.

PATENTS ISSUED:

1. Methods for inducing the differentiation of monocytes into
functional dendritic cells. Inventors: Richard Edelson and
Carole L. Berger, No.09/928,855 2002.

NIH STUDY SECTIONS:

1. Ad Hoc Reviewer, Surgery and Bioengineering, Special
Study Section, 1993
2. Ad Hoc Reviewer, National Cancer Institute, Study Section,
1993
3. Ad Hoc Reviewer, Experimental Clinical Immunology Study
Section, 1993
4. Ad Hoc Reviewer, Dermatology Core Grants, Study
Section, 1992
5. NCI Study Section, Clinical Oncology, 2002
6. NCI Council Subcommittee-D Clinical Oncology 2002
7. NIAAD Study Section K23-25 Awards 2004

NIH Site Visits:

1. University of Texas, Immunology Program Project 1988
2. University of Pennsylvania, GCRC Grant 1988
3. University of California San Francisco, GCRC Grant 1987
4. University of California San Diego, Immunology Program Project 1986
5. Roswell Park, Cancer Center, Buffalo, NY, Site Visits Program Project Photodynamic Therapy, 1998 and 2002
6. University of Pittsburgh, Program Project Grant 2003

JOURNAL REVIEWER:

1. Journal of Investigative Dermatology
2. Journal of Immunology
3. Blood
4. Archives of Dermatology
5. Photobiology and Photochemistry
6. British Journal of Dermatology
7. Clinical and Experimental Allergy
8. Journal of Clinical Investigation
9. Journal of immunotherapy
10. Cancer Letters
11. Transfusion

EDITORIAL BOARDS:

1. Recent patents on anti-Cancer drug discovery

INVITED WORKSHOPS:

1. National Cancer Institute, Protein transduction strategies workshop, Feb 11-12, 2002.
2. National Cancer Institute, Immunobiology and Immunotherapy of Cutaneous T cell Lymphoma workshop, May 6-7, 2006.

PUBLICATIONS

Original Articles:

1. Merz WC, Berger CL, Silva-Hutner M: Media with pH indicators for the isolation of dermatophytes. *Arch Dermatol* 102:545, 1970.
2. Berger CL, Merz WG, Silva-Hutner M: Differences in the growth of Asperigillus fumigatus on Cycloheximide media at three temperatures. *Antimicrob Agents Chemother* 4:388-391, 1973.
3. Berger CL, Warburton D, Raafat J, LoGerfo P, Edelson RL: Cutaneous T-cell lymphoma: Neoplasm of T-cells with helper activity. *Blood* 53:642-651, 1979.
4. Edelson RL, Raafat J, Berger CL, Grossman Marc, Troyer C, Hardy M: Antithymocyte globulin in the management of cutaneous T-cell lymphoma. *Cancer Treat Rep* 63:675, 1979.
5. Berger CL, Edelson RL: Comparison of lymphocyte function after isolation by ficoll-hypaque flotation or elutriation. *J Invest Dermatol* 73:231-235, 1979.
6. Edelson RL, Berger CL, Raafat J, Warburton D: Karyotype studies of cutaneous T cell lymphoma: Evidence for clonal origin. *J Invest Dermatol* 73:548, 1979.
7. Rubenfeld MR, Edelson RL, Lofstrom LM, Berger CL, Warburton D: Neoplastic human T-cells capable of responding to multiple human alloantigens. *Blood* 55:470, 1980.
8. Kung PC, Berger CL, Goldstein G, LoGerfo P, Edelson RL: Cutaneous T-cell lymphoma: Characterization by monoclonal antibodies. *Blood* 57:261-266, 1981.
9. DePietro WP, Berger CL, Harber LC, and Edelson RL: Normal numbers of phenotypic helper, suppressor, and total T-cell populations in psoriasis vulgaris; Quantitation by monoclonal antibodies. *Am Acad Dematol* 5:304, 1981.
10. Berger CL, Morrison SL, Chu A, Patterson JAK, Estabrook A, Takezaki S, Sharon J, Warburton D, Edelson RL: Early diagnosis of cutaneous T-cell lymphoma by use of monoclonal antibodies reactive with tumor-associated antigens. *J Clin Invest* 70:1205-1215, 1982.

11. Takezaki S, Morrison SL, Berger CL, Chu AC, Edelson RL: Biochemical characterization of a differentiation antigen shared by human epidermal Langerhans cells and cortical thymocytes. *J Clin Immunol* 2:128-134S, 1982.
12. Chu A, Goldstein G, Patterson JAK, Berger CL, Takezaki S, Edelson RL: Thymopoietin-like substance in human skin. *Lancet* 2:766, 1982.
13. Chu A, Berger CL, Kung PC, Edelson RL: In situ identification of Langerhans cells in the dermal infiltrate of cutaneous T-cell lymphoma. *J Am Acad Dermatol* 7:350-359, 1982.
14. Chu A, Patterson JAK, Berger CL, Edelson RL: T-cell subpopulations of cutaneous T-cell lymphoma (CTCL). *J Invest Dermatol* 78:334, 1982.
15. Berger CL, Chu AC, Fithian E, Patterson J, Edelson RL: Monoclonal antibodies used for tissue diagnosis in situ and in the circulation of patients with a variety of dermatologic conditions. *Amer J Dermatopathol* 5:85, 1983.
16. Chu AC, Patterson J, Goldstein G, Berger CL, Takezaki S, Edelson RL: Thymopoietin-like substance in human skin. *J Invest Dermatol* 81:194-197, 1983.
17. Estabrook A, Berger CL, LoGerfo P, Hardy M, Edelson RL: Antigenic modulation of T lymphocytes by monoclonal antibodies. *Transplant Proc* 15:651-656, 1983.
18. Kung PC, Berger CL, Estabrook A, Edelson RL: Monoclonal antibodies for clinical investigation of human T lymphocytes. *Int J Dermatol* 22:67-74, 1983.
19. Estabrook A, Mittler R, LoGerfo P, Hardy M, Edelson RL, Berger CL: Antigenic modulation of pan-T cell and T-cell subset specific markers. *Diag Immunol* 1:199-204, 1983.
20. Patterson JAK, Griffiths-Chu S, Chu AC, Berger CL, Edelson RL: Recognition of immature T cell phenotypes in neonatal blood using monoclonal antibodies. *Diag Immunol* 1:205-210, 1983.
21. Berger CL, Edelson RL: Peripheral blood of patients with cutaneous T-cell lymphoma: Studies using monoclonal antibodies. *Cutan Pathol*

10:467-478, 1983.

22. Gasparro FP, Berger CL, Edelson RL: Effect of monochromatic UV-A light and 8-Methoxypsoralen on human lymphocyte response to mitogen. *Photodermatology* 1:10-17, 1984.

23. Murphy RF, Bisaccia E, Cantor RC, Berger CL, Edelson RL: Internalization and acidification of insulin by activated human lymphocytes. *Cell Physiol* 121:351-356, 1984.

24. Griffiths-Chu S, Patterson JAK, Berger CL, Edelson RL, Chu AC: Characterization of immature T-cell subpopulations in neonatal blood. *Blood* 64:296-300, 1984.

25. Patterson JAK, Eisinger M, Haynes BF, Berger CL, Edelson RL: Monoclonal antibody 4F2 reactive with basal layer keratinocytes: Studies in the normal and hyperproliferative state. *J Invest Derm* 83:210-213, 1984.

26. Chu A, Patterson JAK, Berger CL, Vonderheid E, Edelson RL: In situ study of T-cell subpopulations in cutaneous T-cell lymphoma. *Cancer* 54:2414-2422, 1984.

27. Berger CL, Cantor C, Welsh J, Dervan P, Gasparro FP, Edelson RL: Inhibition of lymphocyte proliferation by water soluble psoralen derivatives. *Ann NY Acad Sci* 446:80-90, 1985.

28. Yemul SS, Berger CL, Estabrook A, Edelson RL, Bayley H: The delivery of phototoxic drugs to selected cells. *Annals NY Acad Sci* 446:403-414, 1985.

29. Kaudewitz P, Kind P, Burg G, Rieber P, Berger C, Edelson R, Braun-Falco O: Longitudinal study of surface antigen pattern in cutaneous T cell lymphomas. *Cambridge U. Press*: 123-124, 1985.

30. Berger CL, Friedman-Kien A, DiFranco M, Rehle T, Ostreicher R, Knobler R, Laubenstein L, Edelson RL: Tumor-associated antigen present on lymphocytes from cutaneous T-cell lymphoma patients is also found on lymphocytes from Acquired Immune Deficiency Syndrome patients. *J Invest Dermatol* 87:280-283, 1986.

31. Yemul S, Berger C, Estabrook A, Suarez S, Edelson RL, Bayley H: Selective killing of T-lymphocytes by phototoxic liposomes. *Proc Natl Acad Sci* 84:246-250, 1987.

32. Edelson RL, Berger CL, Gasparro FP, Jegasothy B, Heald P, Wintroub B, Vonderheid E, Knobler R, Wolff K, Plewig G, McKiernan G, Christiansen I, Oster M, Honigsmann H, Wilford H, Kokoschka E, Rehle T, Perez M, Stingl G, Laroche L: Treatment of leukemic cutaneous T cell lymphoma with extracorporeally-photoactivated Methoxypsoralen. *N Engl J Med* 316:297-303, 1987. 8-
33. Chu A, Berger C, Morris J, Edelson R: Induction of an immature T cell phenotype in malignant helper T cells by co-cultivation with epidermal cell cultures. *J Invest Dermatol* 89:358-361, 1987.
34. Shapiro P, Warburton D, Berger C, Edelson R: Clonal chromosomal abnormalities in cutaneous T cell lymphoma. *Cancer Genet Cytogenet* 28:267-276, 1987.
35. Benn P, Soper L., Eisenberg A, Silver RT, Coleman M, Caccapaglia B, Bennett L, Baird M, Silverstein M, Berger C, Bernhardt B: Utility of molecular genetic analysis of BCR rearrangement in the diagnosis of chronic myeloid leukemia (CML). *Cancer Genet Cytogenet* 29:1-7, 1987.
36. Knobler RM, Rehle T, Grossman M, Saxinger CW, Berger CL, Oster M, Mckiernan GE, Edelson RL: Clinical evolution of cutaneous T cell lymphoma in a patient with antibodies to human T-lymphotropic virus type I. *J Amer Acad Dermatol* 17:903-909, 1987.
37. Berger CL, Eisenberg A, Soper L, Chow J, Simone J, Gapas Y, Cacciapaglia B, Bennet L, Edelson RL, Warburton D, Benn P: Clonal rearrangements of the T Beta gene and dual genotypes in cutaneous T cell lymphoma. *J Invest Dermatol* 90:73-77, 1988.
38. Fuzesi L, Pepino P, Berger CL, Panza A, Chiang C, Marboe CC, Smith CR, Reemtsma K, Rose EA: Immunomanipulation of the response to cardiac allo and xenoreactive leukocytes. *Trans Proc* 21:837-841, 1989.
39. Pepino P, Berger CL, Fuzesi L, Panza A, Pierson RN, Gutierrez C, Marboe CC, Smith CR, Reemtsma K, Rose EA: Primate cardiac allo and xeno transplantation: modulation of the immune response with photochemotherapy. *Eur Surg Res* 21:105-113, 1989.
40. Perez M, Edelson R, LaRoche L, Berger CL: Specific suppression

of anti-allograft immunity by vaccination with syngeneic photoinactivated splenocytes. *J Invest Dermatol* 92:669-676, 1989.

41. Berger CL, Perez M, LaRoche L, Edelson RL: Inhibition of murine autoimmune disease by reinfusion of syngeneic lymphocytes inactivated with psoralen and ultraviolet A light. *J Invest Dermatol* 94:52-57, 1990.

42. Yemul S, Berger CL, Goldstein G, Estabrook A, Katz M, Edelson RL, Bayley H: Use of non-modulating antibody-targeted phototoxic liposomes as a selective drug delivery system. *Cancer Immunol Immunother* 30:317-322, 1990.

43. Heald PW, Berger CL, Yamamura T, McNamara J, Edelson RL: BE2 antigen: Appearance in activation and long-term growth of T cells *J Invest Dermatol* 94:452-455, 1990.

44. Edwards N, Ott G, Berger CL, Xu H, Tepler I, Coppey L, Smith C, Reemtsma K, Rose E: Incidence of preformed antibodies against potential xenodonors in human sera. *Transplantation* 49:1022-1024, 1990.

45. Bisaccia E, Berger C, Klainer A: A pilot study of extracorporeal photopheresis in AIDS-related complex. *Ann Intern Med* 113:270, 1990.

46. Sanchez JA, Edwards NM, Berger CL, Ott GY, Coppey L, He X, Fong JC, Reemtsma K, Rose EA: Photochemotherapy provides donor-specific immunosuppression in cardiac transplantation. *Surg Forum* XLI:421-423, 1990.

47. Armus S, Keyes B, Cahill C, Berger C, Crater D, Scarborough D, Klainer A, Bisaccia E: Photopheresis for the treatment of cutaneous T-cell lymphoma. *J Am Acad Dermatol* 23:270-275, 1990.

48. Sanchez JA, Marboe CC, Auteri JS, Jeevanandum V, Edwards NM, Berger CL, Rose EA: Binding of preformed xenoantibodies to porcine bioprosthetic valves. *Ann Thorac Surg* 51:30-33, 1991.

49. Sanchez JA, Fong JC, Watkins JF, Berger CL, Xu H, Reemtsma K, Rose EA: Elimination of preformed antibody activity to xenoantigens utilizing dithiol-reducing agents. *Trans Proc* 23:885-886, 1991.

50. Watkins JF, Edwards NM, Sanchez JA, Ott GY, Coppey LJ, Collett JR, Xu H, Mclaughlin M, Berger CL, Smith CR, Rose EA: Specific

elimination of preformed antibody activity against xenogeneic antigens by use of an extracorporeal immunoadsorptive circuit. *Transplant Proc* 23:360-364, 1991.

51. Rose EA, Pepino P, Barr ML, Smith CR, Ho E, Reed E, Berger CL, Reemtsma K: Relation of HLA-antibodies and graft atherosclerosis in human cardiac allograft recipients. *J Heart Lung Transplant* 11:120-123, 1992.

52. Ratner AJ, Canhui H, Pepino P, Xu H, Rose E, Berger CL: Lymphocyte xenoantigens recognized by preformed antibodies. *Transplant Proc* 24:583-585, 1992.

53. Heald P, Rook A, Perez M, Wintroub B, Knobler R, Jegasothy B, Gasparro F, Berger C, Edelson R: Treatment of erythrodermic cutaneous T-cell lymphoma with extracorporeal photochemotherapy. *J Am Acad Dermatol* 27:427-433, 1992.

54. Rose EA, Barr ML, Xu H, Pepino P, Watkins JF, Ratner AJ, Murphy M, McGovern M, Marboe CC, Berger CL: Photochemotherapy in human heart transplant recipients at high risk for fatal rejection. *J Heart Lung Transplant* 11:746-750, 1992.

55. Bisaccia E, Berger C, DiSpaltro FX, Klainer AS: Extracorporeal photopheresis in the treatment of AIDS-related complex. *J AIDS* 6:386-392, 1993.

56. Xu H, Kwiatkowski P, Chen JM, Kaplon RJ, Edwards NM, Dong X, Berger C, Michler RE: Use of D-Penicillimine to remove preformed xenoantibodies. *Transplantation* 58:1299-1303, 1994.

57. Barr ML, McLaughlin SN, Murphy MP, Stouch BC, Widemann JG, Marboe CC, Schenkel FA, Berger CL, Rose EA: Prophylactic photopheresis and effect on graft atherosclerosis in cardiac transplantation. *Transplant Proc* 27:1993-1994, 1995.

58. Longley J, Tyrell L, Lu S-Z, Farrell J, Ding T, Yan S, Sallee D, Heald P, Berger C, Tigelaar R, Edelson R: Malignant and normal T cells show random use of T-cell receptor α chain variable regions in patients with cutaneous T cell lymphoma. *J Invest Dermatol* 105:62, 1995.

59. Heald PW, Kim HY, Perez M, Edelson R, Berger CL: T-cell response in photoimmune therapy. *J Clin Apheresis* 10:144, 1995.

60. Gonzalez J, Berger C, Cottrill C, Geller A, Schwartz J, Palagio M, Klainer A, Bisaccia E: Cytolytic response to HIV disease treated with extracorporeal photochemotherapy: Preliminary studies. *Photochem* 63:558, 1996.
61. Berger CL, Wang N, Christensen I, Longley J, Heald P, Edelson RL: The immune response to class I associated tumor-specific cutaneous T cell lymphoma antigens. *J Invest Dermatol* 107:392-397, 1996.
62. Fagnoli M-C, Edelson RL, Berger CL, Chimenti S, Couture C, Mustelin T, Halaban R. Diminished TCR signaling in cutaneous T cell lymphoma is associated with decreased activities of Zap70, Syk and membrane-associated Csk. *Leuk* 11:1338-1346, 1997.
63. Berger CL, Dong Z, Hanlon D, Bisaccia E, Edelson RL: A lymphocyte cell surface heat shock protein homologous to the endoplasmic reticulum chaperone, immunoglobulin heavy chain binding protein BIP. *Int J Cancer* 71:1077-1085, 1997.
64. Berger CL, Longley BJ, Imaeda S, Christensen I, Heald P, Edelson RL: Tumor-specific peptides in cutaneous T-cell lymphoma: Association with class I major histocompatibility complex and possible derivation from the clonotypic T-cell receptor. *Int J Cancer* 76:304-311, 1998.
65. Hanlon D, Berger C, Edelson RL: Photoactivated 8-methoxypsoralen causes a peptide-dependent increase in antigen display by transformed lymphocytes. *Int J Cancer* 78:70-75, 1998.
66. Berger CL, Xu A-L, Hanlon D, Lee C, Schechner J, Glusac E, Christensen I, Snyder E, Holloway V, Tigelaar R, Edelson RL. Large-scale induction of human tumor-loaded dendritic cells. *Int J Cancer* 91:4438-447, 2001.
67. Berger CL, Hanlon D, Kanada D, Dhodapkar M, Lombillo V, Wang N, Christensen I, Howe G, Crouch J, El-Fishawy P, Edelson R. The growth of cutaneous T-cell lymphoma is stimulated by immature dendritic cells. *Blood* 99:2929-2938, 2002.
68. Berger CL, Tigelaar R, Cohen J, Mariwalla K, Trinh J, Wang N, Edelson RL. Cutaneous T cell lymphoma, malignant proliferation of T-regulatory cells. *Blood* 105:1640-1647, 2005.

69. Salskov-Iversen M, Berger CL, Edelson, RL. Rapid construction of a dendritic cell vaccine through physical perturbation and apoptotic malignant T cell loading. *J Immune Based Therapies and Vaccines* 3:<http://www.figtherapies.com/content/3/1/4>, 2005.
70. Wong HK, Wilson AJ, Gibson HM, Hafner MS, Hedgcock C, Berger CL, Edelson RL, Lim HW. Increased expression of CTLA-4 in PBMC and malignant T-cells from patients with mycosis fungoides (CTCL). *J Invest Dermatol* 126:212-219, 2006.
71. Nebozhyn M, Loboda A, Kari L, Rook AH, Vonderheid EC, Lessin S, Berger C, Edelson R, Nichols C, Yousef M, Gudipati L, Shang M, Showe Mk, Showe LC. Quantitative PCR on 5 genes reliably identifies CTCL patients with 5-99% circulating tumor cells with 90% accuracy. *Blood* 107:3189-3196, 2006.
72. Girardi M, Berger CL, Wilson, LD, Christensen IR, Thompson KR, Glusac EJ, Edelson RL. Transimmunization for cutaneous T cell lymphoma: a Phase I study. *Leuk Lymph* 47:1495-1503.
73. Shofner JD, Vasquez, JG, Berger CL, Edelson, RL. Improved generation of anti-tumor immunity by antigen dose limitation. *J Immune Based Ther Vaccines* 5:2: doi:10.11186/1476-8518, 2007.
74. Shen X, Berger CL, Tigelaar, R, Edelson, RL. Development of immunogenic tumor-loaded dendritic cells through physical perturbation and apoptotic cell loading. *Immunol Invest* 37:1-24, 2008.

Review Articles:

1. Berger CL, Kung PC, Goldstein G, DePietro W, Takezaki S, Chu AC, Fithian E, Edelson RL: Use of Orthoclone monoclonal antibodies in the study of selected dermatologic conditions. *Int J Immunopharmacol* 3:31-44, 1981.
2. Berger CL, Edelson RL: Monoclonal antibodies: Powerful new tools for the clinician. *Arch Dermatol* 118:627-629, 1982.
3. Berger CL: Experimental murine and primate models for dissection of the immunosuppressive potential of photochemotherapy in autoimmune disease and transplantation. *Yale J Biol Med* 62:611-620, 1989.
4. Perez MI, Edelson RL, John L, Laroche L, Berger CL: Inhibition of antiskin allograft immunity induced by infusions with photoinactivated effector T lymphocytes (PET cells). *Yale J Biol Med* 62: 595-609, 1989.
5. Berger CL, Edelson R, Edwards R, Edwards N, Sanchez J, Coppey L, He X, Marboe C, Rose E: Autoregulation of the immune response in autoimmune disease and cardiac transplantation by photoinactivated autologous lymphocytes. *Ann NY Acad Sci* 636:266-278,1991.
6. LaRoche L, Edelson R, Perez M, Berger CL: Antigen-specific tolerance induced by autoimmunization with photoinactivated syngeneic effector cells. *Ann NY Acad Sci* 636:113-123, 1991
7. Bisaccia E, Berger C, DiSpaltro FX, Armus S, Cahill C, Klainer A: Viral specific immunization in AIDS-related complex (ARC) by photopheresis. *Ann NY Acad Sci* 636:321-330, 1991.
8. Edelson RL, Heald P, Perez M, Berger C: Extracorporeal Photochemotherapy. *Biol Ther Cancer* 4:1-12,1994.
9. Berger CL, Longley J, Hanlon D, Girardi M, Edelson R. The clonotypic T cell receptor is a source of tumor-associated antigens in cutaneous T cell lymphoma. *Ann NY Acad Sci* 941:106-123, 2001.
10. Girardi M, Berger C, Hanlon D, Edelson RL. Efficient tumor antigen loading of dendritic antigen presenting cells by Transimmunization. *Tech Cancer Res* 1:65-69, 2002.
11. Berger CL Hanlon D, Kanada D, Girardi M, Edelson RL. Transimmunization, a novel approach for tumor immunotherapy. *Trans Apher Sci* 26:205-216, 2002.
13. Berger CL, Edelson RL. Current concepts of the immunobiology and

immunotherapy of cutaneous T cell lymphoma: Insights gained through cross-talk between the clinic and the bench. *Leuk Lymph* 44:1697-1703, 2003.

14. Berger CL, Edelson R. The life cycle of cutaneous T cell lymphoma reveals opportunities for targeted drug therapy. *Curr Cancer Drug Targ* 4:609-619, 2004.

15. Berger CL, Shofner J, Vasquez JG, Mariwalla K, Edelson RL. Cancer Immunotherapy. *Cancer Therapy* 4:81-98, 2006.

16. Berger CL, Vasquez JG, Shofner J, Mariwalla K, Edelson RL. Langerhans cells: Mediators of immunity and tolerance. *Int J Biochem Cell Biol* 38:1632-1636, 2006.

17. Berger CL, Edelson R. Dendritic cell immunotherapy in malignancies. *Drugs of the Future* 32:1-9, 2007

18. Berger CL, Heald P, Girardi M, Edelson RL. Cutaneous T cell lymphoma: translating immunobiology into therapeutic opportunities. *G Ital Dermatol Venereol* 143:43-54, 2008.

19. Berger CL, Edelson RL. Cancer Immunotherapy: from promise to practice. *Drugs of the future* 33:1-13, 2008.

20. Mutyambizi K, Berger CL, Edelson RL. The balance between immunity and tolerance: The role of Langerhans cells. *Cell Mol Life Sci* (in press).

Book Chapters:

1. Edelson RL, Chu AC, Takezaki S, Berger CL: The interaction of T-lymphocytes with epidermis, in Fleischmajer R (ed): *Progress in Diseases of the Skin*, Vol. 1, p. 177. New York: Grune & Stratton, 1981.

2. Edelson RL, Berger CL, Armstrong RB: Lymphapheresis in the treatment of the leukemic phase of cutaneous T-cell lymphoma and pemphigus vulgaris. In Nemo GJ, and Taswell H (eds): *Proc Workshop on Therapeutic Plasmapheresis and Cytapheresis*, NIH PUBL. No. 82-1665, pp. 55-71. Rochester: U S Dept Health and Human Services, 1981.

3. Chu A, Berger CL, Lynfield Y, Essee I and Edelson RL: Pathogenesis of cutaneous T-cell lymphoma. In Goos M and Christophers E (eds): *Lymphoproliferative Diseases of the Skin*, pp. 57-64, Berlin: Springer-Verlag, 1982.

4. Berger CL, Edelson RL, Gasparro FP, Harber LC: Skin-associated lymphoid tissues and photo-diseases, theoretical considerations. In Krueger J and Daynes R (eds): Clinical Photoimmunology, CRC Press, 1983.
5. Berger CL, Edelson RL: Networks of immunity: Functions of the immune system. In Cutaneous Toxicity, Drill V A and Lazar P (eds): Raven Press, pp 165-171, 1983.
6. Teltscher J, Yemul SS, Berger C, Edelson R, Bayley H: Phototoxic liposomes for selective destruction of T-lymphocytes: Experiments under physiologic conditions. Liposomes as Drug Carriers: Trends and Progress. G. Gregoriades (Ed), John Wiley & Sons, Chichester, England pp783-792, 1988.
7. Heald P, Yan S-L, Berger C: Chronic antigenic stimulation in the pathogenesis of cutaneous T-cell lymphoma. In Proc Satellite Symposium "Cutaneous Lymphoma-1993-" M. Takigawa, F. Furukawa, and Y. Tokura (eds): Mokko Press, Hamamatsu, Japan pp 21-30, 1994.
8. Edelson RL, Berger C: Extracorporeal photochemotherapy. In Malignant Tumors of the Skin. A.C. Chu and R. L. Edelson (eds): Arnold, London, England pp 396-410, 1999.
9. Berger CL, Mariwalla K, Girardi M, Edelson RL. Advances in understanding the immunobiology and immunotherapy of cutaneous T-cell lymphoma. In Advances in Dermatology, Vol 20. W. D. James and S. Hwang (eds): Mosby Inc., Elsevier, New York, USA pp 217-235, 2004.
10. Berger CL, Heald P, Edelson RL. Cutaneous T cell lymphoma: Advances in immunology translate into clinical practice. In Recent advance in skin immunology, Sem Saeland (ed): Research Signpost, Kerala, India, pp 263-282.